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CHEROKEE INTERNATIONAL

"The Powerful Choice"

QT24 Series

150 Watt Switching Regulated
Single & Multiple Output Power Supplies

Jameco Part Number 203431

150 Watts

Features

- UL Recognized to UL 1950
- CSA Certified to C22.2 No. 234-950
- Fully compliant with FCC and VDD (Level B) Standards for EMI
- Meets IEEE 578 for input transients
- Auto range 85-264VAC
- Input surge current limit
- Brown out protected
- Overload Protection
- Overvoltage protected
- Low output noise
- Isolated output

Specifications

AC INPUT: 115/230VAC, Single phase jumper selectable. Optional Auto Range 90-264VAC, 47-63Hz.

DC OUTPUT: V1 ±5%, all other outputs tack V1

REGULATION: Combination of line, load, and cross. V1, V3, & V4 = ±5%, V2 = ±10%, V1 = ±2% on Single Output Model.

RIPPLE/NOISE: Less than 1% Pk-Pk (BW 20 MHz)

TRANSIENT RESPONSE: Deviation on all output is ±2% with a 25% load step at 5A/msec slew rate.

TEMPERATURE COEFFICIENT: ±2% / °C for all outputs

TEMPERATURE RANGE: Operation 0°C at rated output power of 150 Watts with 25CFM air provided. (100 Watts Convection) Storage: -55 to +85°C.

EFFICIENCY: 75% typical @ full rated load, nominal line.

INRUSH CURRENT: 35 Amps maximum
OVERLOAD PROTECTION: Total primary power limit set at 200 Watts.

OVERVOLTAGE: Set at 120% (±5%) V1 only.

HOLD-UP TIME: 16 ms after loss of nominal AC input

FUSING (F-1): 4A, 250VAC 5MF type.
EMI: FCC and VDE Level "B".

POWER FAIL (Good): Power applied: Output "LOW" until all outputs are in regulation. Power lost: After 1 cycle ridethrough (16 ms min.) output goes "LOW" 2.0 ms min. before loss of regulation.

HIPOT: Input to Output & Input to Chassis rated for 2600VDC for one (1) second.

MINIMUM CURRENT: A 20% minimum load is required on multi-output models. Single output models do not require a minimum load.

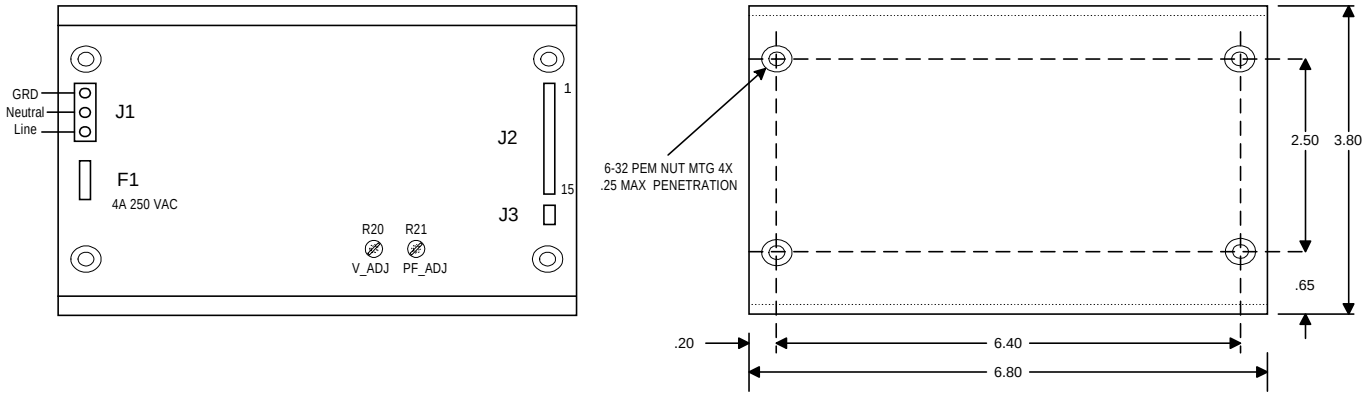
MECHANICAL OUTLINE: L: 6.8" (172.72mm); W: 3.8" (96.52mm); H: 1.5" (38.1mm).

SHOCK/VIBRATION: Per MIL-STD-810C; Vibration: Method 514.2 Proc. X.X1; Shock: Method 512.2, Proc. L, lll; Shock (Transit): Method 516.2 Proc. Ll.

Weight: 1.3 lbs. (0.61 Kg.)

Note: All specifications subject to change without notice.

Outline/Mounting/Interface



	PCB CONNECTOR	MATING CONNECTOR
J1	AMP 640445-5	640426-5
J2	AMP 1-640445-5	1-640426-5
J3	AMP 540456-2	640440-2

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Output Specifications

QT24 Voltage/Current Combinations								
MODEL NUMBER	OUTPUT 1		OUTPUT 2		OUTPUT 3		OUTPUT 4	
	Volts	Amps	Volts	Amps	Volts	Amps	Volts	Amps
QT24A1	+5	15	-5	1	-12	1	+12	5
QT24B1	+5	15	-5	1	-24	1	+24	3
QT24C1	+5	15	-5	1	-15	1	+15	4
QT24D1	+5	15	-	-	12	1	+12	6 (8)
QT24E1	+5	15	-	-	-	-	+12	6 (8)
QT21E2V	+5	24					+12	2
QT24F1	+5	30	-	-	-	-		
QT24G1	+12	12	-	-	-	-		
QT24H1	+15	10	-	-	-	-		
QT24I1	+24	7	-	-	-	-		

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